

I claim:

1. A multipurpose input device series-connected between an AC input source and a DC circuit, comprising:
 - a magnetic core having ferromagnetic characteristic; and
 - 5 a coil winding conforming to EMC being wound around said magnetic core, said coil winding having the functions of an inrush current limiter, a fusible link, and an EMC choke.
2. The multipurpose input device as claimed in claim 1, wherein said magnetic core has a high resistivity and a high permittivity.
- 10 3. The multipurpose input device as claimed in claim 1, wherein said magnetic core has an appropriate coil frame or package mechanism to separate from a circuit.
4. The multipurpose input device as claimed in claim 1, wherein said coil winding is a fusible/resistance winding.
- 15 5. The multipurpose input device as claimed in claim 1, wherein said coil winding can be formed by assembling a first coil of a smaller number of turns with a second coil of a larger number of turns.
6. The multipurpose input device as claimed in claim 1, wherein a surface thereof can be coated with a covering layer having protection effect.